Product Specification

300Mbps 802.11n Wireless In-wall Access Point

WNAP-W2200

Version 2.0

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Change History:

Revision	Date	Author	Change List
1.0	2013/06/10	Miki	Preliminary
2.0	2013/12/03	Miki	Modified H/W design

Author	Miki	Editor:	Miki
Reviewed by:	Kent	Approved by:	Tom

1. PRODUCT DESCRIPTION

All-In-One Hotel Room Wireless Solution

The WNAP-W2200 built-in one RJ-45 port for connecting IPTV or laptop, one RJ-11 port for phone pass-through, and also provides the high speed 300Mbps wireless connectivity for iPhone, iPad and Android smart phones. In addition, the USB charger port keeps your devices full with power in anytime. Featuring the elegant form factor and compact in-wall design enables hotels to build a good brand image.

Ultra High Speed 802.11n Wireless

The WNAP-W2200 features latest IEEE 802.11n radio with 2T2R MIMO antenna technology to provide improved wireless speed and coverage with up to 300Mbps upload and download data rate. The incredible wireless speed makes it ideal for handling multiple HD movies stream, high resolution on-line game, stereo music, VoIP and data streams at the same time stably and smoothly. It is also backward compliant with 802.11g and 802.11b standards; thus it is no need to change the existing network for convenient maintenance. Just connect to the WNAP-W2200; you can immediately enjoy the high-speed wireless sharing.

Fully Support of Wireless Security Encryption

In aspect of security, besides 64/128-bit WEP encryption, the WNAP-W2200 integrates WPA / WPA2, WPA-PSK / WPA2-PSK and 802.1x Radius authority to secure and protect your wireless LAN. It provides the wireless MAC filtering and SSID broadcast control to consolidate the wireless network security and prevent unauthorized wireless connection.

Adapted to live In-Wall Design

Featuring attractive appearance and In-Wall design, the WNAP-W2200 can be firmly installed into the wall via the standard 86x86mm European outlet box, which is easy and convenient in room installation. Its pure and simple body without protruding antennas also gives no effects to the surroundings.

Convenient USB Charger

To provide better services for travelers, the WNAP-W2200 built-in one USB 2.0 charger which output 5V DC power can charging any USB compliant mobile devices, e.g. cell phone, pad, and other handheld devices. Thus, this option enabled the convenience in public area, pedestrians or travelers will no worry about forgot to carry the AC adapter.

Flexible Deployment with PoE Feature

Compliant with IEEE 802.3af Power over Ethernet standard, the WNAP-W2200 can be powered and networked by a single UTP cable. It thus reduces the needs of extra cables and dedicated electrical outlets on the wall, ceiling or any other places where are difficult to reach. The wireless AP deployment becomes more flexible and worries free from the power outlet locations.

Easy Installation & Management

With user-friendly Web UI and Central Management Utility, it is easy for users to install the device, even for a user who never experience setting up a wireless network. Its SNMP feature allows the system administrator to remote monitor and control the network devices more efficiently.

2. PRODUCT FEATURES

- **Standard Compliant Hardware Interface**
  - Complies with IEEE 802.11n Wireless LAN speed up to 300Mbps
  - 2 x 10/100Base-TX Ports with 1-port PoE (PD, Powered Device)
  - 1 x RJ-11 Port for Telephone Transparent
  - USB 2.0 charger port for easy charging to most of mobile devices.
  - European 86-type & 75-type Wall outlet compatible
- **RF Interface Characteristics**
  - 2T2R MIMO technology for enhanced throughput and coverage
  - High-speed data rates of up to 300Mbps with IEEE 802.11n
- **Secure Network Connection**
  - Advanced security: 64/128-bit WEP, WPA/WPA2, WPA-PSK/WPA2-PSK (TKIP/AES encryption) and Radius Authentication
  - Supports MAC address Filtering
  - Supports Dual-SSID to separate guest access and secure private network
- **Easy Installation & Management**
  - Easy Deployment with Standard IEEE 802.3af PoE supported
  - Stylish In-wall design perfectly match the room decoration
  - User Friendly Web-based UI
  - PLANET Smart Discovery Utility for deploy management
  - Centralized Management Utility allows administrator monitoring and configuring

3. PRODUCT SPECIFICATION

3.1 MAIN COMPONENT

CPU	Broadcom BCM5357
RAM	32 MB DDR SDRAM
Flash	4 MB

3.2 FUNCTIONAL SPECIFICATIONS

Product	**WNAP-W2200** 300Mbps 802.11n Wireless In-wall Access Point	
Hardware Specification		
Interface	PoE Port	1 x 10/100Mbps Auto MDI/MDI-X RJ45 port (Rear Panel) ※ IEEE 802.3af PD Port
	LAN Port	1 x 10/100Mbps Auto MDI/MDI-X RJ45 port
	RJ-11 Port	Connect to the telephone through the 4-conductor phone line
	4-pin Terminal Block	Connect to the PBX through the 4-conductor telephone wire (Rear Panel)
	USB Port	USB 2.0, Type-A, 5V DC/0.5A Output
PoE	IEEE 802.3af	
Antenna	Built-in 3dBi antenna x2	
Reset Button	Reset button at front panel Press over 7 seconds to reset the device to factory default	
LED Indicators	PWR/SYS LED	
Material	Plastic	
Dimension (L x W x H)	86 x 86 x 35 mm	
Weight	103g	
Power Requirement	48V DC, 320mA	
Power Consumption	< 10W	
Wireless interface Specification		
Standard	Compliance with IEEE 802.11b/g/n	
Frequency Band	America/ FCC: 2.414~2.462GHz (11 Channels) Europe / ETSI: 2.412~2.472GHz (13 Channels)	
Channel Width	20 or 20/40MHz	
Transmission Distance	Indoor up to 100m Outdoor up to 300m (it is limited to the environment)	
RF Power (Intentional Radiator)	IEEE 802.11b: 18dBm IEEE 802.11g: 15dBm IEEE 802.11n: 15dBm	
Wireless Management Features		
Wireless Modes	Access Point (Dual-SSID)	
Encryption Security	WEP (64/128-bit) WPA-PSK (TKIP) / WPA2-PSK (AES) WPA (TKIP) / WPA2 (AES) 802.1x Authentication	
Wireless Security	Enable/Disable SSID Broadcast	
	Wireless LAN ACL (Access Control List) MAC filtering	

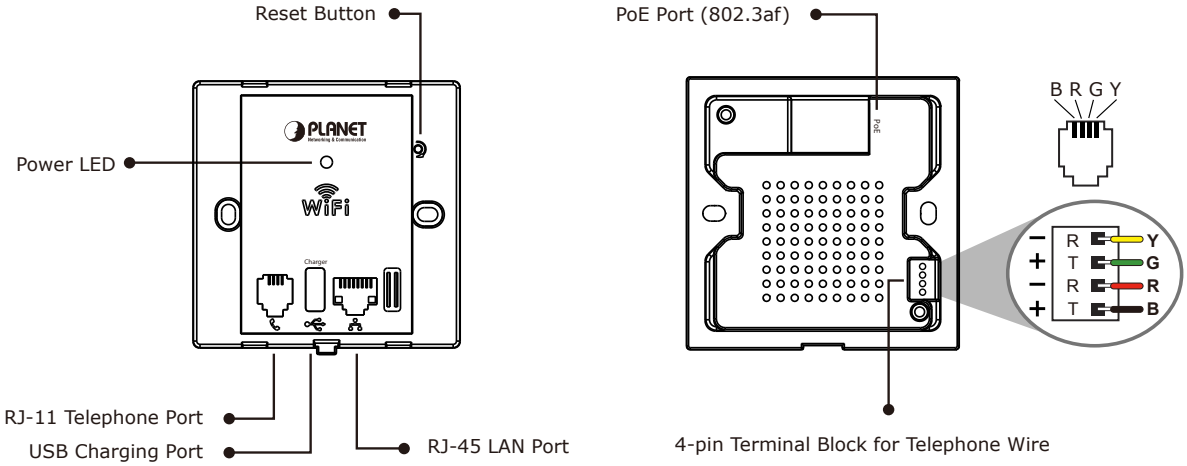
Wireless Advanced	AP Isolation: Enable it to isolate each connected wireless clients
	Supports 802.11e WMM (Wi-Fi Multimedia), 802.1Q VLAN
Max. Supported Clients	Wire: Not limited Wireless: 25
System Management	Web-based (HTTP) management interface
	SNMP management, LED On/Off control, Schedule Reboot
	Supports Planet Smart Discovery & Centralized Management Utility
	System Log

3.3 Physical Specification

Dimension
86 x 86 x 35 mm (L x W x H)

Weight
103g

Hardware Description



LED definition

Object			Description
PWR	**Green**	On	Power on
		Flashing	The system is initializing
		Off	LED enabled: Neither Power nor the device is malfunctioned LED disabled: the LED control has been turned off

Button definition

Object	Description
Reset	Open the front panel to press the Reset button over 7 seconds and then release it. The system restores to the factory default settings.

H/W Interface definition

Object	Description
PoE Port (802.3af PoE)	10/100Mbps RJ-45 port , Auto MDI/ MDI-X Connect LAN port to the PoE injector to power on the device.
LAN Port	10/100Mbps RJ-45 port , Auto MDI/ MDI-X Connect this port to the network equipment.
USB Port	USB 2.0, Type-A, 5V DC/0.5A Output Connect this port to charge the mobile device.
RJ11 Port	Connect to the telephone through the 4-conductor phone line
4-pin Terminal Block	Connect to the PBX through the 4-conductor telephone wire

Product Outlook

Front View	Rear View
Side View	**Bottom View**

3.4 Environmental Specification

Temperature

Operating: -10 ~ 45 degree C

Storage: -40 ~ 70 degree C

Humidity

Operating: 10 ~ 90% (Non-Condensing)

Storage: 10% ~ 90% (Non-Condensing)

3.5 Regulatory Compliance

CE, RoHS, WEEE

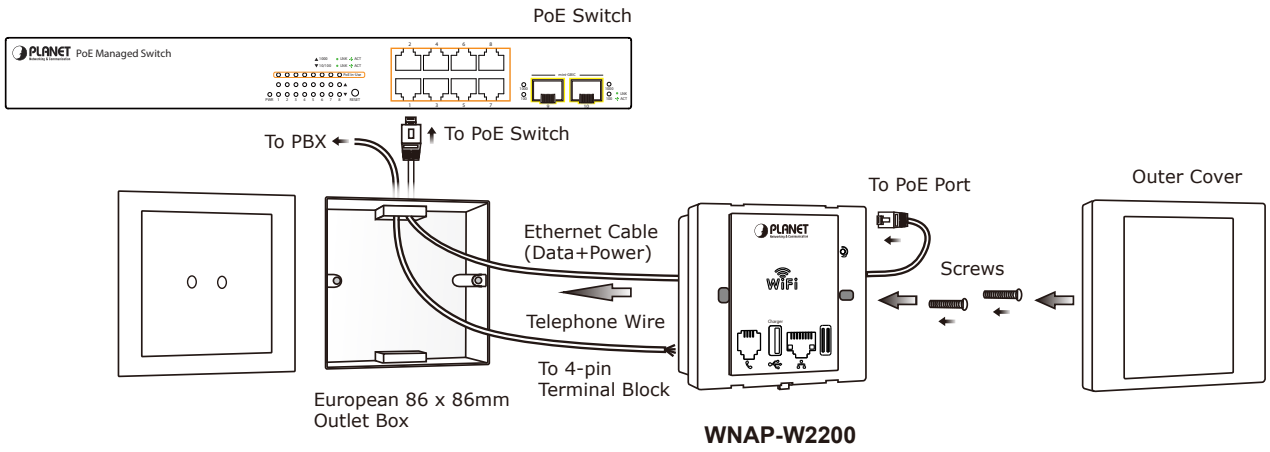
3.6 BASIC PACKAGING

- WNAP-W2200 x 1
- Screws x 2
- CD (Includes User's Manual) x 1
- Quick Installation Guide x 1

3.7 PACKAGING INFORMATION

Dimension: 110 x 110 x 71mm (L x W x H)
Weight: 172g (gross weight)
60pcs in one carton

APPENDIX A: Installation Diagram



APPENDIX B: Default Settings

Device Name	WNAP-W2200
Hardware Version	2.0
IP Address	192.168.1.253 / Static IP
Gateway	192.168.1.1
Subnet Mask	255.255.255.0
SSID Broadcast	Enable
SSID 1	WNAP-W2200_xxxxx1
SSID 2	WNAP-W2200_xxxxx2
Country	Europe
Wireless Mode	11b/g/n mixed
Channel	Auto
Channel List	1~13
Channel Bandwidth	20/40
Security	Disable
TX Power Percentage	100
WMM Capable	Enable
APSD Capable	Disable
AP Isolation	Disable
SNMP	Disable
Time Zone	(GMT) Greenwich Mean Time
Sync with Internet Time Servers	Enable
DHCP Server	Disable